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IS 14526 (1998): Forestry Tools - Plant Carrier [FAD 21: Farm Implements and Machinery]

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भारतीय मानक

वानिकी औजार — पादप वाहक — विशिष्टि

Indian Standard

FORESTRY TOOLS — PLANT CARRIER — SPECIFICATION

ICS 65.060.80

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

March 1998 **Price Group 1**

Farm Implements and Machinery Sectional Committee, FAD 59

FOREWORD

This Indian Standard was adopted by the Bureau of Indian Standards, after the draft finalized by the Farm Implements and Machinery Sectional Committee had been approved by the Food and Agriculture Division Council.

Plant carrier is used for transporting the seedling from the nursery to the planting site. It is a very convenient equipment for carrying seedlings in the hilly regions. The equipment is of knapsack type and is carried on the back of the worker keeping his both hands free. The plant carrier is meant for carrying a load not exceeding 35 kg. Overloading shall be avoided.

In preparation of the standard considerable assistance has been derived from Forest Research Institution, Dehra Dun.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

FORESTRY TOOLS — PLANT CARRIER — SPECIFICATION

1 SCOPE

This standard specifies the materials, dimensions and other requirements of the plant carrier used for transporting the seedling from the nursery to the planting site.

2 REFERENCE

2.1 The Indian Standard given below contains provisions which through reference in this text, constitutes provision of this standard. At the time of publication, the edition indicated was valid. All standards are subject to revision and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated:

IS No.	*Title*
2102 (Part 1) : 1993	General tolerances: Part 1 Tolerances for linear and angular dimensions without individual tolerance indications (*third revision*)

3 SHAPE AND DIMENSIONS

3.1 Shape and dimensions shall be as given in Fig. 1.

3.2 The tolerances on dimensions shall be very coarse class specified in IS 2102 (Part 1).

4 MATERIAL

Component	*Materials*
Frame	Chrome plated steel pipe
Tray	Mild steel netting
Back rest	Canvas
Shoulder strips	Nylon strips, rubber foam and nylon cloths
Supporting waist belt	Nylon
Fasteners	Commercial quality

5 OTHER REQUIREMENTS

5.1 The plant carrier shall be folding type. The trays shall be detachable or can be folded.

5.2 The shoulder strips and waist belt shall be adjustable.

5.3 The weight of the plant carrier shall not exceed 4 kg.

6 WORKMANSHIP AND FINISH

6.1 All sharp corners shall be rounded off.

6.2 The plant carrier shall be free from defects such as cracks, rust, burrs and other manufacturing defects.

6.3 Welding wherever done shall not be porous.

6.4 The steel netted trays shall be applied with a coat or rust preventive paint.

7 PERFORMANCE TEST

Plant carrier shall be tested 10 times by carrying plants weighing up to 35 kg for a distance of 3 km in a hilly terrain. The plant carrier shall not show any sign of bending, cracks, opening of welding, tearing of canvas, etc.

8 DESIGNATION

The plant carrier shall be designated by the number of this Indian Standard as:

Plant Carrier, IS 14526.

9 MARKING AND PACKING

9.1 Marking

The plant carrier shall clearly be marked with the following information:

a) Manufacturer's name and recognized trade-mark;
b) Batch or Code or Serial number; and
c) Size.

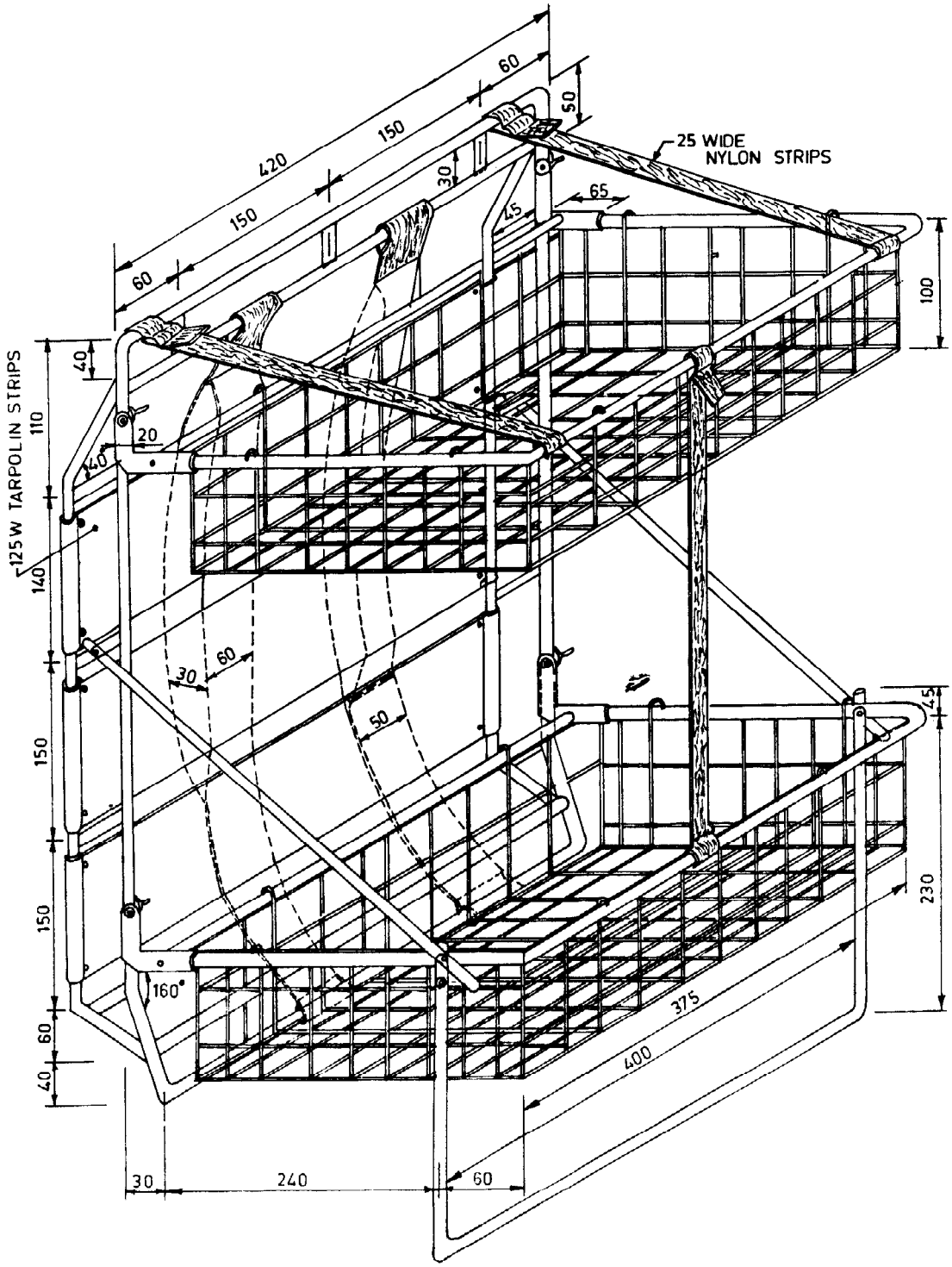
9.2 BIS Certification Marking

Each plant carrier may also be marked with the Standard Mark.

9.2.1 The use of the Standard Mark is governed by the provisions of *Bureau of Indian Standards Act*, 1986 and the Rules and Regulations made thereunder. The details of conditions under which the license for the use of Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.

9.3 Packing

The plant carrier shall be suitably packed to avoid damage during transport and handling.



All dimensions in millimetres.

FIG. 1 PLANT CARRIER

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Amend No.	Date of Issue	Text Affected

BUREAU OF INDIAN STANDARDS

Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 110 002
Telephones : 323 01 31, 323 33 75, 323 94 02

Telegrams : Manaksanstha
(Common to all offices)

Regional Offices :		Telephone
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Eastern	: 1/14 C. I.T. Scheme VII M, V. I. P. Road, Maniktola CALCUTTA 700 054	337 84 99, 337 85 61 337 86 26, 337 91 20
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